Title: METHOD AND SYSTEM OF INERTIA FRICTION WELDER First Named Applicant: Jeff Lovin Atty. Docket No.: 514730/95007 Express Mail No. EL 414 514 103 US

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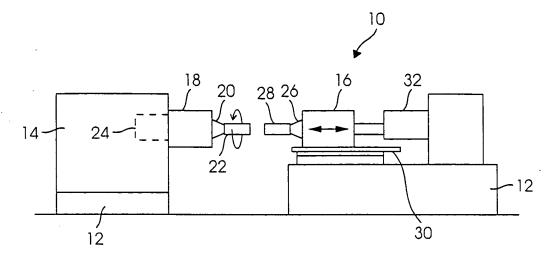
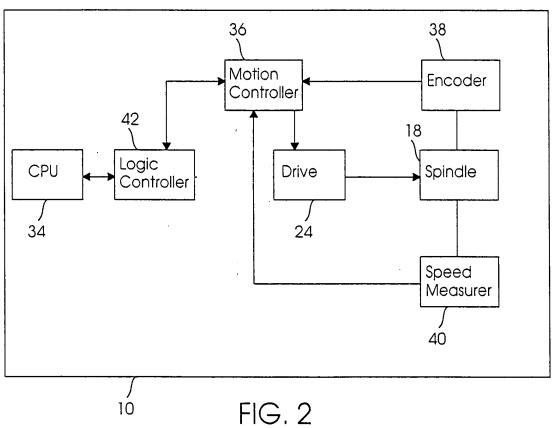


FIG. 1



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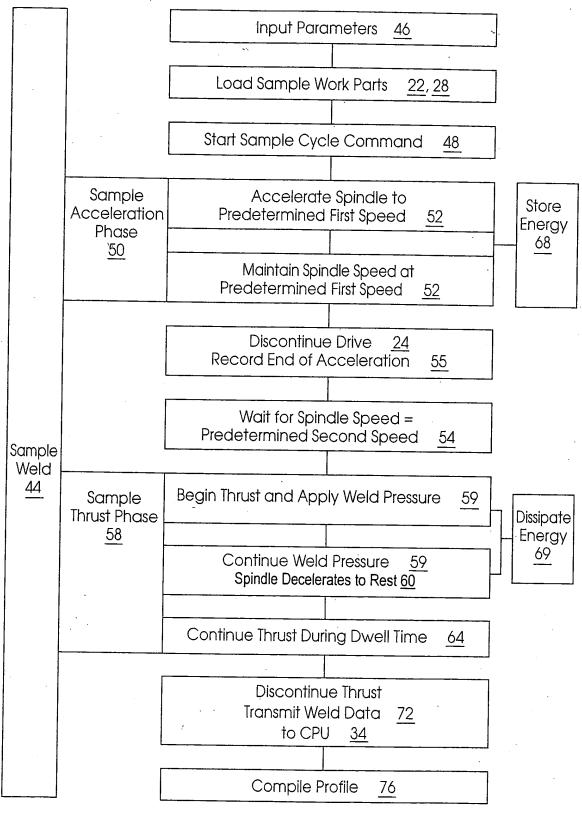


FIG. 3

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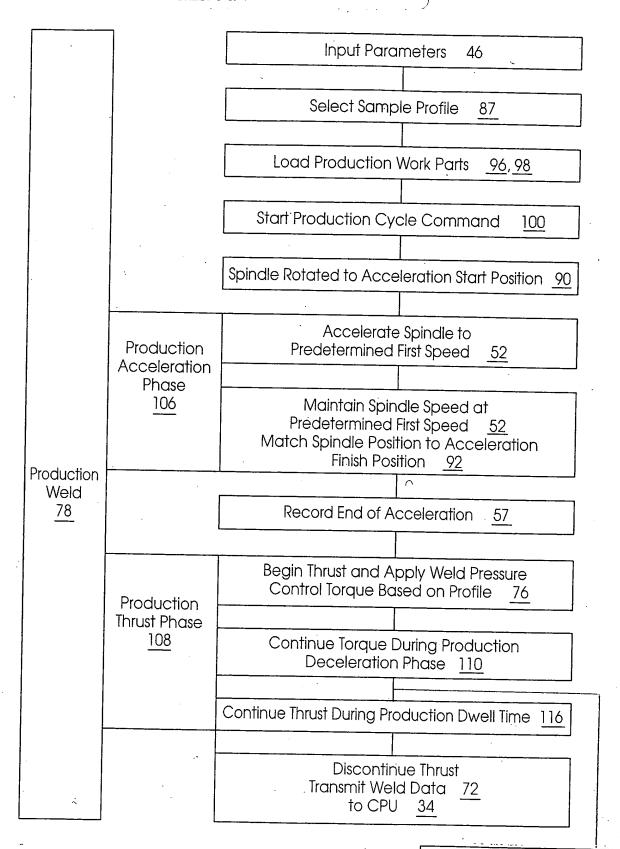


FIG. 5

Spindle Decelerates to Rest 112

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Target Rotary Position <u>80</u>
Rotary Position Tolerances <u>82</u>
Rotary Position Offset <u>84</u>
Acceleration Ramp Time 86
Sample Profile 87
Acceleration Revolutions <u>88</u>
Acceleration Start Position 90
Acceleration Finish Position 92

FIG. 4

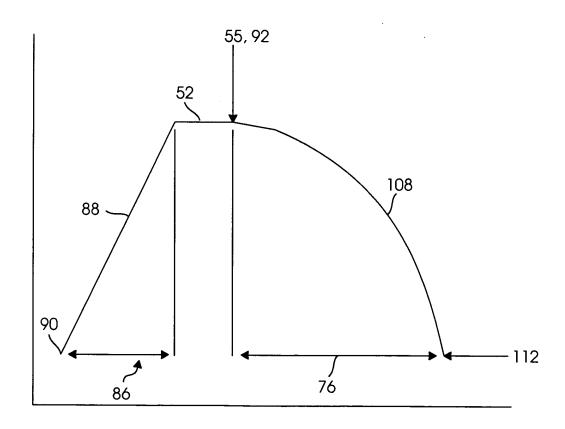


FIG. 6